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- 1 [GPGPU: general purpose computation on graphics hardware](#)
 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM [Request Permissions](#)

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Bibliometrics: Downloads (6 Weeks): 255, Downloads (12 Months): 1580, Dov

The graphics processor (GPU) on today's commodity video cards has evolved into a general purpose processor. The latest graphics architectures provide tremendous memory bandwidth and fully programmable vertex ...

- 2 [Exploiting perception in high-fidelity virtual environments](#)
Additional presentations from the 24th course are available on 1
 Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Die July 2006 **SIGGRAPH '06: SIGGRAPH 2006 Courses**

Publisher: ACM [Request Permissions](#)

 Full text available: [Mov](#) (68:6 MIN), [Pdf](#) (5.07 MB) Additional Information: [full citation](#), [by](#), [index.t](#)
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The objective of this course is to provide an introduction to the issues that arise in the design of high-fidelity 3D engaging shared virtual environments. The principles of human-computer interaction, algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, networked applications, perception, virtual reality

- 3 [Collaborative operating system and compiler power management for embedded systems](#)
 Nevine AbouGhazaleh, Daniel Mossé, Bruce R. Childers, Rami Melhem February 2006 **Transactions on Embedded Computing Systems (TECS)**

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (733.43 KB)

 Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 153, Downl


Managing energy consumption has become vitally important to battery-powered systems. *Dynamic voltage scaling* (DVS) reduces the processor's dynamic power consumption by linearly decreasing the ...

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Keywords: Real-time, collaborative OS and compiler, dynamic voltage points placement

4 [Performance OpenGL: platform independent techniques](#)

 Bob Kushne, Tom True, Alan Commike, Dave Shreiner
July 2005 **SIGGRAPH '05: SIGGRAPH 2005 Courses**


Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (3.76 MB)

Additional Information: [full citation](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 158, Downl

5 [SEED: scalable, efficient enforcement of dependences](#)

 Francisco J. Mesa-Martínez, Michael C. Huang, Jose Renau

September 2006 **PACT '06: Proceedings of the 15th international conference techniques**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (447.38 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Downloa

Instruction issue logic is a critical component in modern high-performan latencies found in modern processors, mostly associated with memory a using large issue ...

Keywords: energy-efficient design, issue logic, scalability

6 [Proceedings of the 2000 ACM/IEEE conference on Supercomputing](#)

Jed Donnelley


November 2000 **Supercomputing '00: Proceedings of the 2000 ACM/IEEE**

Publisher: IEEE Computer Society



Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

7 [Communications of the ACM: Volume 52 Issue 4](#)


 April 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.58 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 580, Downloads (12 Months): 2434, Dov

8 [Spectral probing, crosstalk and frequency multiplexing in internet pai](#)

 Partha Kanuparth, Constantine Dovrolis, Mostafa Ammar

October 2008 **IMC '08: Proceedings of the 8th ACM SIGCOMM conference c**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (794.86 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 187, Downl

We present an end-to-end active probing methodology that creates freq signals are generated by periodic packet trains that cause short-lived q multiplexed in the ...

Keywords: active probing, distributed agents, fourier transform, frequency processing

9 Resource aware programming in the Pixie OS

 Konrad Lorincz, Bor-rong Chen, Jason Waterman, Geoff Warner-Allen, Matt November 2008 **SenSys '08: Proceedings of the 6th ACM conference on Er**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (756.12 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 300, Downl

This paper presents Pixie, a new sensor node operating system design applications. These applications, which include high-resolution monitoring signals, involve high ...


Keywords: resource reservations, resource-aware programming, wireless

10 Cookies: A deployment study and the testing implications

 Andrew F. Tappenden, James Miller

June 2009 **Transactions on the Web (TWEB)** , Volume 3 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (2.25 MB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 192, Downl

The results of an extensive investigation of cookie deployment amongst deployment is found to be approaching universal levels and hence there software engineering ...


Keywords: Cookies, Internet browser, Web engineering, Web technolo

11 Managing battery lifetime with energy-aware adaptation

 Jason Flinn, M. Satyanarayanan

May 2004 **Transactions on Computer Systems (TOCS)** , Volume 22 Iss

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.61 MB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 181, Downl

We demonstrate that a collaborative relationship between the operating user-specified goals for battery duration. We first describe a novel profile application and ...

Keywords: Power management, adaptation



12 Communications of the ACM: Volume 52 Issue 10

 October 2009 Communications of the ACM

Publisher: ACM


Full text available:

Additional Information: [full citation](#)

 Digital Edition ,  Pdf (7.38 MB)

Bibliometrics: Downloads (6 Weeks): 5925, Downloads (12 Months): 5925, Downloads (24 Months): 5925

13 Performance OpenGL: platform independent techniques or

 Tom True, Brad Grantham, Bob Kuehne, Dave Shreiner

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.03 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 75, Downloads (24 Months): 75


The OpenGL Application Programming Interface (API) is the most widely interface available to programmers today. Such broad support of OpenGL challenges in maximizing ...

14 Power to the people: Leveraging human physiological traits to control

Alex Shys, Yan Pan, Ben Scholbrock, J. Scott Miller, Gokhan Memik, Peter...

November 2008 **MICRO '08**: Proceedings of the 2008 41st IEEE/ACM International Symposium on Microarchitectures

Publisher: IEEE Computer Society


Full text available:  Pdf (2.68 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 75, Downloads (24 Months): 75


Any architectural optimization aims at satisfying the end user. However knowledge about the individual user. If architectures could determine what to provide higher ...

15 Real-time shading

 Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool,

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (7.39 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 648, Downloads (24 Months): 648

Real-time procedural shading was once seen as a distant dream. When years ago, real-time shading was possible, but only with one-of-a-kind hundreds of rendering ...

16 Radio interferometric geolocation

 Miklós Maróti, Péter Völgyesi, Sebestyén Dóra, Branislav Kusý, András Nád

November 2005 **SenSys '05**: Proceedings of the 3rd international conference on Sensor Networks and Information Systems

Publisher: ACM  [Request Permissions](#)





Full text available:  Pdf (458.64 KB)

Additional Information: [full citation](#), [abstract](#)





Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 131, Downloads (24 Months): 131

We present a novel radio interference based sensor localization method relies on a pair of nodes emitting radio waves simultaneously at slightly different frequencies. The composite ...

Keywords: localization, location-awareness, radio interferometry, ranging

17 [Communications of the ACM: Volume 51 Issue 7](#) July 2008 Communications of the ACM**Publisher:** ACMFull text available:  [Digital Edition](#) ,  [Pdf](#) (6.54 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 4781, Downloads (12 Months): 8720, Dc**18** [Power reduction techniques for microprocessor systems](#) [Vasanth Venkatachalam](#), [Michael Franz](#)September 2005 **Computing Surveys (CSUR)** , Volume 37 Issue 3**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (602.33 KB) Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 101, Downloads (12 Months): 720, Dowl

Power consumption is a major factor that limits the performance of com
techniques that reduce the total power consumed by a microprocessor s
at various ...

Keywords: Energy dissipation, power reduction**19** [Communications of the ACM: Volume 51 Issue 11](#) November 2008 Communications of the ACM**Publisher:** ACMFull text available:  [Digital Edition](#) ,  [Pdf](#) (8.26 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 526, Downloads (12 Months): 3523, Dov**20** [Assessing demand for intelligibility in context-aware applications](#) [Brian Y. Lim](#), [Anind K. Dey](#)September 2009 **UbiComp '09: Proceedings of the 11th international confe****Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (1.15 MB) Additional Information: [full citation](#), [abs](#)**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 19, Downlo

Intelligibility can help expose the inner workings and inputs of context-a
users due to their implicit sensing and actions. However, users may not
applications can ...

Keywords: context-aware, explanations, intelligibility, satisfaction

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